

COC #66

# CHAIN OF CUSTODY REPORT

Work Order #: **M106023**

CLIENT: <b>Bristol</b>		INVOICE TO: <b>Bristol</b>										<b>TURNAROUND REQUEST in Business Days*</b> Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10 7 5 4 3 2 1 &lt;1</div> <div>STD.</div> <div>5 4 3 2 1 &lt;1</div> </div> Petroleum Hydrocarbon Analyses STD. <span style="border: 1px solid black; padding: 2px;">OTHER</span> Please Specify _____ <small>*Turnaround Requests less than standard may incur Rush Charges.</small>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
REPORT TO: <b>Anne Krautweller</b>		P.O. NUMBER: <b>21090</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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PHONE: <b>770-0974</b>		FAX: <b>770-0975</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DRO	BTEX	Pb	Cu	Zn	Cd	Mn	Fe	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	Au	Pt	Ba	Sr	Ca	Mg	Al	Si	Ti	V	Ni	Co	As	Se	Hg	Cr	Mo	Ag	



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
425.420.9200 fax 425.420.9210  
**Spokane** East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter  
Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/08/01 16:24. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson  
Environmental Group Leader

Work Orders included in this report:

**M106023**



**Seattle** 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223  
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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/25/01 16:56

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMB302MI	M106023-01	Other dry	06/08/01 13:45	06/08/01 16:24

COC # 66

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

1 of 4



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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/25/01 16:56

**TCLP Metals per EPA 1311/6000/7000 Series Methods**  
**North Creek Analytical - Mobile Lab**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMB302MI (M106023-01) Other dry</b>					Sampled: 06/08/01 Received: 06/08/01				
Lead	ND	0.0500	mg/l	1	1311/7000	06/10/01	06/14/01	0106030	
<b>01AMB302MI (M106023-01RE1) Other dry</b>					Sampled: 06/08/01 Received: 06/08/01				
<b>Lead</b>	<b>0.0589</b>	0.0500	mg/l	1	1311/7000	06/18/01	06/19/01	0106065	<b>A-01</b>

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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2 of 4



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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/25/01 16:56

### TCLP Metals per EPA 1311/6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 0106030 - EPA 1311/3010

##### Blank (0106030-BLK1)

Prepared: 06/10/01 Analyzed: 06/13/01

Lead ND 0.0500 mg/l

##### LCS (0106030-BS1)

Prepared: 06/10/01 Analyzed: 06/13/01

Lead ND 5.00 mg/l 2.00 43.6 75-125 A-02

##### Matrix Spike (0106030-MS1)

Source: M106023-01

Prepared: 06/10/01 Analyzed: 06/13/01

Lead ND 5.00 mg/l 2.00 ND 42.4 50-150 A-02

#### Batch 0106065 - EPA 1311/3010

##### Blank (0106065-BLK1)

Prepared: 06/18/01 Analyzed: 06/19/01

Lead ND 0.0500 mg/l

##### LCS (0106065-BS1)

Prepared: 06/18/01 Analyzed: 06/19/01

Lead ND 5.00 mg/l 2.00 33.8 75-125 A-02

##### Matrix Spike (0106065-MS1)

Source: M106023-01RE1

Prepared: 06/18/01 Analyzed: 06/19/01

Lead ND 5.00 mg/l 2.00 ND 35.2 50-150 A-02

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering  
2000 W International Airport C#1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 21090  
Project Manager: Anne Kranawetter

**Reported:**  
06/25/01 16:56

### Notes and Definitions

- A-01 A confirmation analysis of the sample extract was conducted by NCA fixed lab in Beaverton, OR. That analysis confirmed Amchitka data for client sample results. See addendum page 3 sample description: M106023-01A (P1F0468-01).
- A-02 Analyte recovery is low and outside of control limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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## Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106023 FINAL 06 25 01 1656.mdb Default Report (not modified)
0106030-BS1	Pb TCLP 7000 Series	Lead	A-02
0106030-BS1	Pb TCLP 7000 Series	Lead	Exceeds lower control limit
0106030-MS1	Pb TCLP 7000 Series	Lead	A-02
0106030-MS1	Pb TCLP 7000 Series	Lead	Exceeds lower control limit
0106065-BS1	Pb TCLP 7000 Series	Lead	A-02
0106065-BS1	Pb TCLP 7000 Series	Lead	Exceeds lower control limit
0106065-MS1	Pb TCLP 7000 Series	Lead	A-02
0106065-MS1	Pb TCLP 7000 Series	Lead	Exceeds lower control limit
M106023-01RE1	Pb TCLP 7000 Series		A-01